

# SIEMENS

## ARCADIS Varic / Orbic

SP

### Update Instructions

SP005/05/I

SP005/05/I: Bugfix 1: Collimator, print name, printer LUT

Reason for Update: **Infrequent Service**

Urgency:	Immediate	X Within	6 months
Update material required for classic update?	Yes	X No	
Remote update possible?	Yes, without CSE	Yes, with CSE	X No
File download available?	X Yes		No
Materials free of charge?	X Yes		No
Return of parts?	Yes	X No	
Estimated completion time:	2	1	Number of CSEs:
Customer training?	Yes	X No	

**Affected systems/products/system-identifying IVK**

Name	Material no.	Serial no.
ARCADIS Varic/Orbic	80 80 017 / 80 81 080	See supplementary sheet

**Components affected/to be modified/IVK**

Name	Material no.	Serial no.	Component status affected
n.a.	n.a.	n.a.	n.a.

Chg.Ref.No.:

Name: Loskarn Oswald  
Dept.: CS SD 24

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Print No.: SP00-000.896.03.01.02

Replaces: n.a.

English

Doc. Gen. Date: 04.05

**Document revision level**

The document corresponds to the version/revision level effective at the time of system delivery. Revisions to hardcopy documentation are not automatically distributed.

Please contact your local Siemens office to order current revision levels.

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## Affected systems/products

ARCADIS Varic serial number: 10000 to 10206

ARCADIS Orbic serial number: 20000 to 20037

## Reason for the update

Problems:

1. The filter collimator position sporadically does not match the pre-display in the case of graphic display
2. When printing the radiation summary report
3. Brightness problems when printing on the local printer, now additional printer LUT for adjusting brightness
4. Image quality, new value for brightness control
5. Image quality, new values for the subtraction parameter

## Requirements

Update Instruction SP024/04/P must be followed for ARCADIS Varic systems. As a result, imaging system software VB11A is installed, for example.

There are no prerequisites for ARCADIS Orbic systems.

The necessary software is available on the Internet under:

for Service / SP / Surgery / ARCADIS Varic / Software / Bugfix 1: Collimator, print name, printer LUT

or

for Service / SP / Surgery / ARCADIS Orbic / Software / Bugfix 1: Collimator, print name, printer LUT

There is no difference between ARCADIS Varic and ARCADIS Orbic.

## Downloading procedure

- Double-click on "Bugfix\_Update\_VA00A.zip".  
    ⇒ The "Download file" window is displayed.
- Click on "Save".
- Select the path for saving the file on the PC.
- Click on "Save".
- Close the dialog box.
- Double-click on "Main\_System\_VA01E.zip".  
    ⇒ The "Download file" window is displayed.
- Click on "Save".
- Select the path for saving the file on the PC.
- Click on "Save".
- Close the dialog box.
- Double-click on "System\_CD\_VA00D.zip".  
    ⇒ The "Download file" window is displayed.
- Click on "Save".
- Select the path for saving the file on the PC.
- Click on "Save".
- Close the dialog box.
- Open Explorer.
- Extract the individual zip files.
- Burn the contents of each extracted folders to a separate CD.
  - For example the contents of the "Bugfix\_Update\_VA00A" folder are "- bin, -UP72, and - install.bat".

Only the contents of the corresponding folder may be burned to the CD.

## Special tools/documents

Troubleshooting Guide SPR2-310.840.01.xx.xx.

## Ordering information

Not applicable since the required files are only stored in the intranet.

## Contents of the update kit

Not applicable since the required files are only stored in the intranet.

## Returns

It is not necessary to return any parts.

## General information

The information given here is valid for all chapters.

**NOTE**

- Steps to be performed are preceded by a bullet point.
- Indented text under the activity to be performed contains general information.
- ⇒ Results and events are preceded by an arrow.

**NOTE**

Once the "Save" button has been selected in the individual screens, the message "..... successfully saved" appears following a successful save.



- Select "OK".

## Reboot, restart, and shutdown

**NOTE**

To activate changes in the system, a "shutdown" must generally be performed, i.e., the complete system must be switched off and switched back on again.

A shutdown must always be performed when configuration is complete.

If one of the following messages appears, proceed as described in the note.

**NOTE****Restart****Reboot**

- **If one of the above windows is displayed, click "OK".**

**Reboot**

- **If this window is displayed, click on "OK".**
- **Click on "Home".**

**Network****NOTE**

**Before starting the software installation, be sure that all archiving, filming, copying and networking jobs has been completed and cleared from the respective queues.**

## Data to record

### Service key

- Record the service key .....
  - It can be found, for instance, in the system binder.

### Computer name

- Record the computer name .....
  - It can be found in the service software under Configuration/Local host/TCP IP LAN/Computer name.

### Administrator password

- Assign and record the administrator password .....
  - The password is assigned in the service software under Configuration/Local host/Users.

### Backup

- Perform a backup operation.
  - This is described in the included "Troubleshooting Guide".

### Exam set

- Open the service software.
- Click "Reports".
- Click "Exam sets" under "Remote diagnostics".
  - ⇒ This generates the "examination set configuration" report.
- Click "Exit".

### Burning log files to CD

- Insert a blank CD.
- Select "Event log".
- In the upper command line, click "Burn log files".
  - ⇒ This generates the log files.
  - ⇒ This saves all files located in the extract folder on CD-ROM.
- Remove the CD from the CD-ROM drive and label it.

## Main system software installation

- Open the service software.
- Select "Main system".
  - If the "Main System" button is not visible, check the connection between the monitor carriage and the main system.

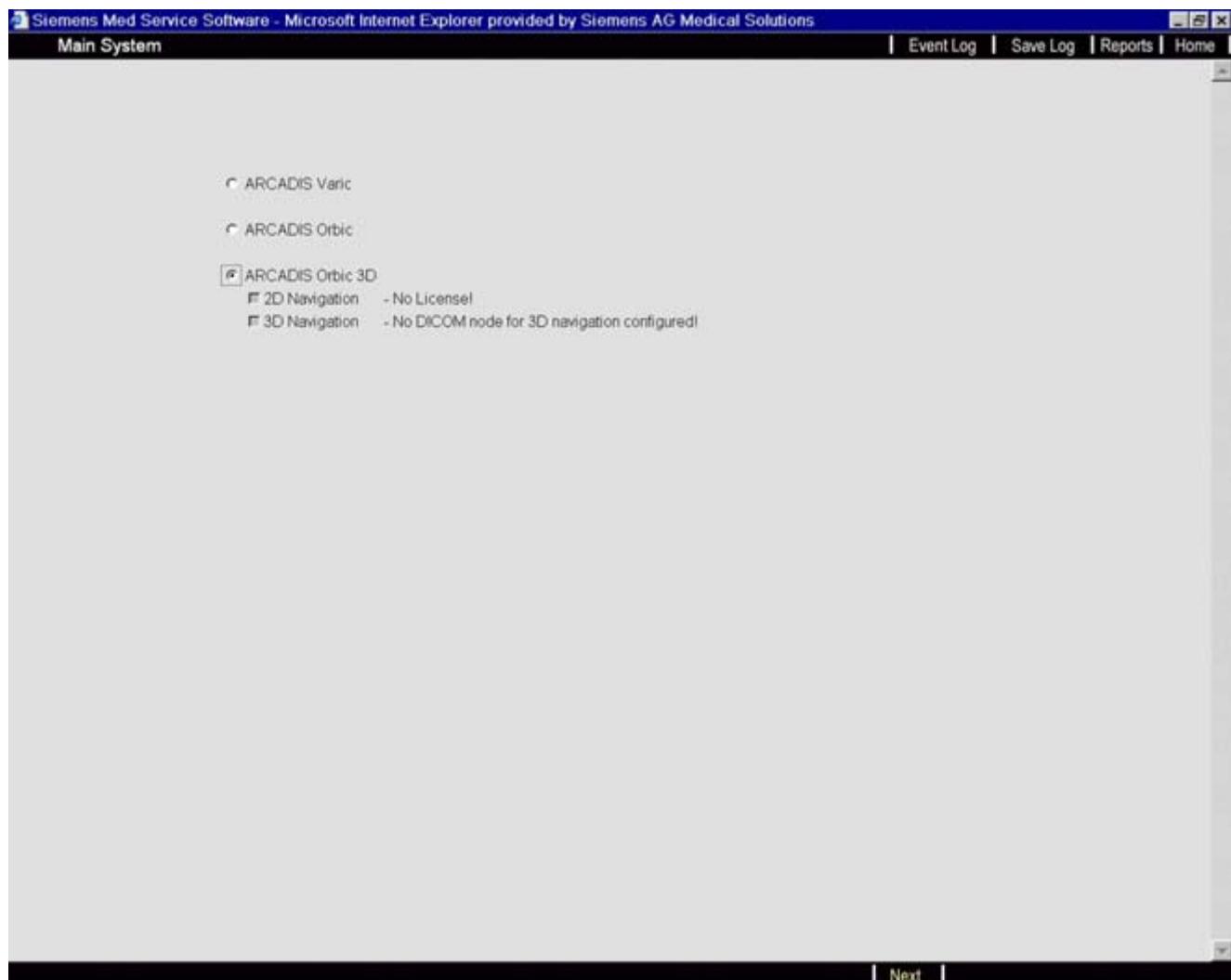


Fig. 1: MainSystem\_ARCADISOrbic\_3D

- Click "Next".
  - Do not make any changes.

## Main system download

- Select "C-arm" under "Download".
  - The installed programs are displayed under "Current ver.".

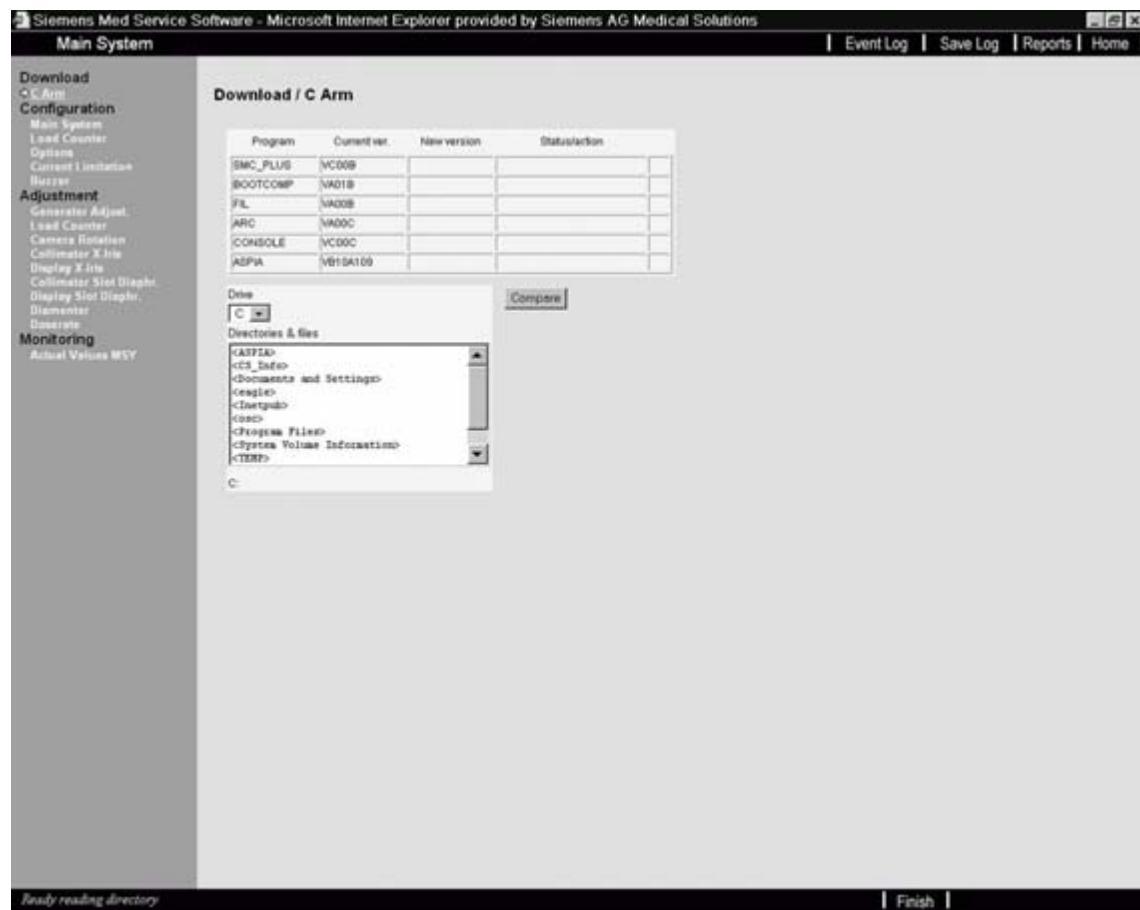


Fig. 2: Main System >> Download >> C-arm

- Insert the “Main System VA01E” CD into the CD-ROM drive.
- Select CD drive "R" under "Drive".
- Select the file to be checked “SMC\_Plus\_VC01E.BIN “ under “Directories & files”.
- Click “Compare”.
  - The file version is displayed under "New version", and a recommended action (e.g., update necessary) is displayed under "Status/action".
  - A checkmark appears automatically in the last column, if this program has to be installed again.
    - ⇒ “Update necessary” is displayed.
- Click “Download”.
  - Only one program should be selected. Otherwise, installation problems may occur.
    - ⇒ The software is installed.
    - ⇒ The main system restarts.
- Click "Finish".
- Remove the CD from the CD-ROM drive.

**NOTE**

**It is not necessary to perform a restore operation or make any adjustments after a main system software installation. The parameters are stored in EE Prom.**

**A restore is required only if the D1 of the main system has been replaced.**

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## Subtraction parameters

- Click "Configuration" in the service software.
- Click "Next".
- Select "Subtraction parameter" under "Imaging system".

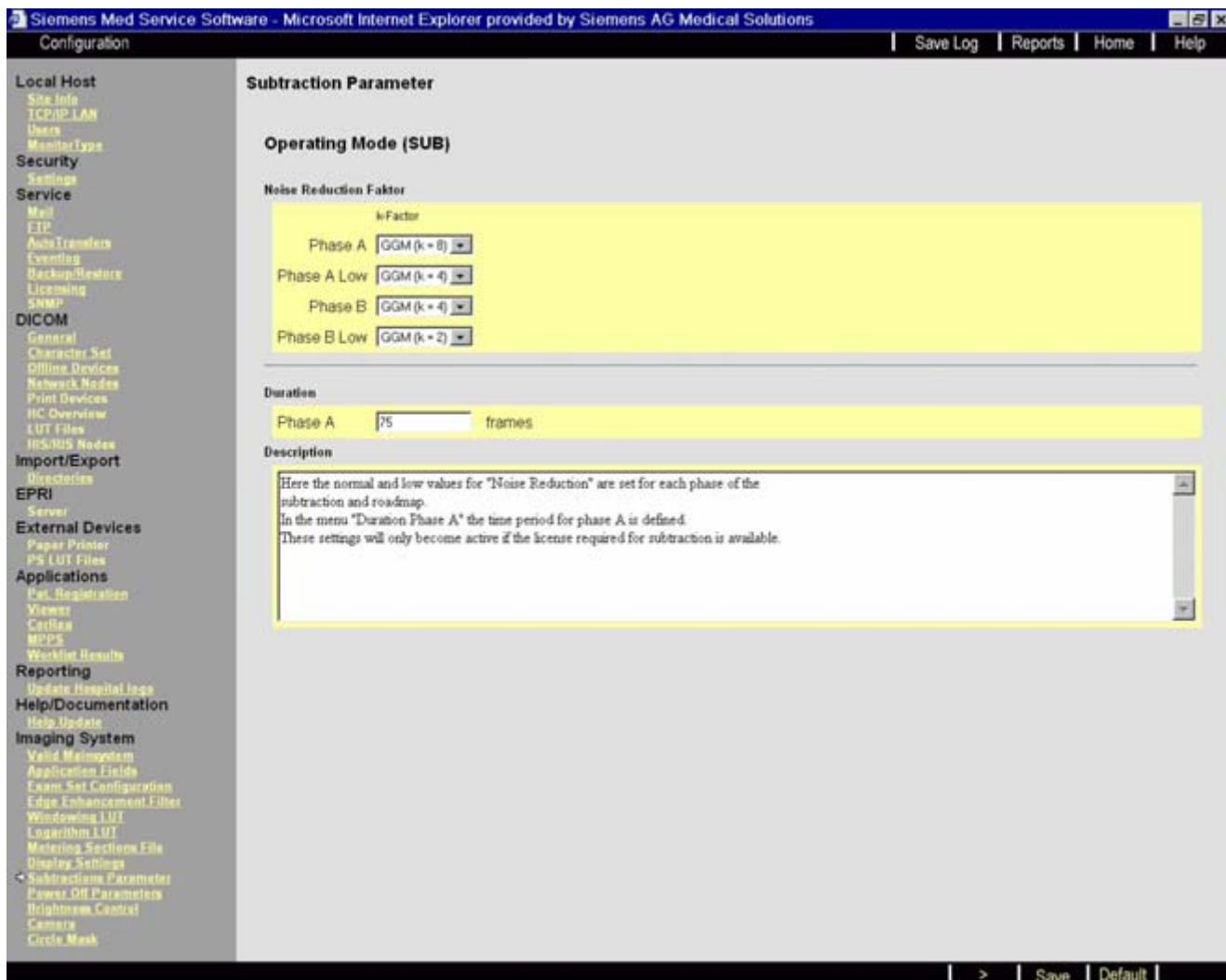


Fig. 3: Configuration imaging system subtraction parameter operating mode

## Operating mode subtraction (DSA)

- Verify that k factor "GGM 8" is set under Phase A.
- Verify that k factor "GGM 8" is set under Phase A Low.
- Verify that k factor "GGM 8" is set under Phase B.
- Verify that k factor "GGM 4" is set under Phase B Low.
- Verify that "75" frames are set under Phase A.
- Select "Save".

## Operating mode roadmap

- Select ">".

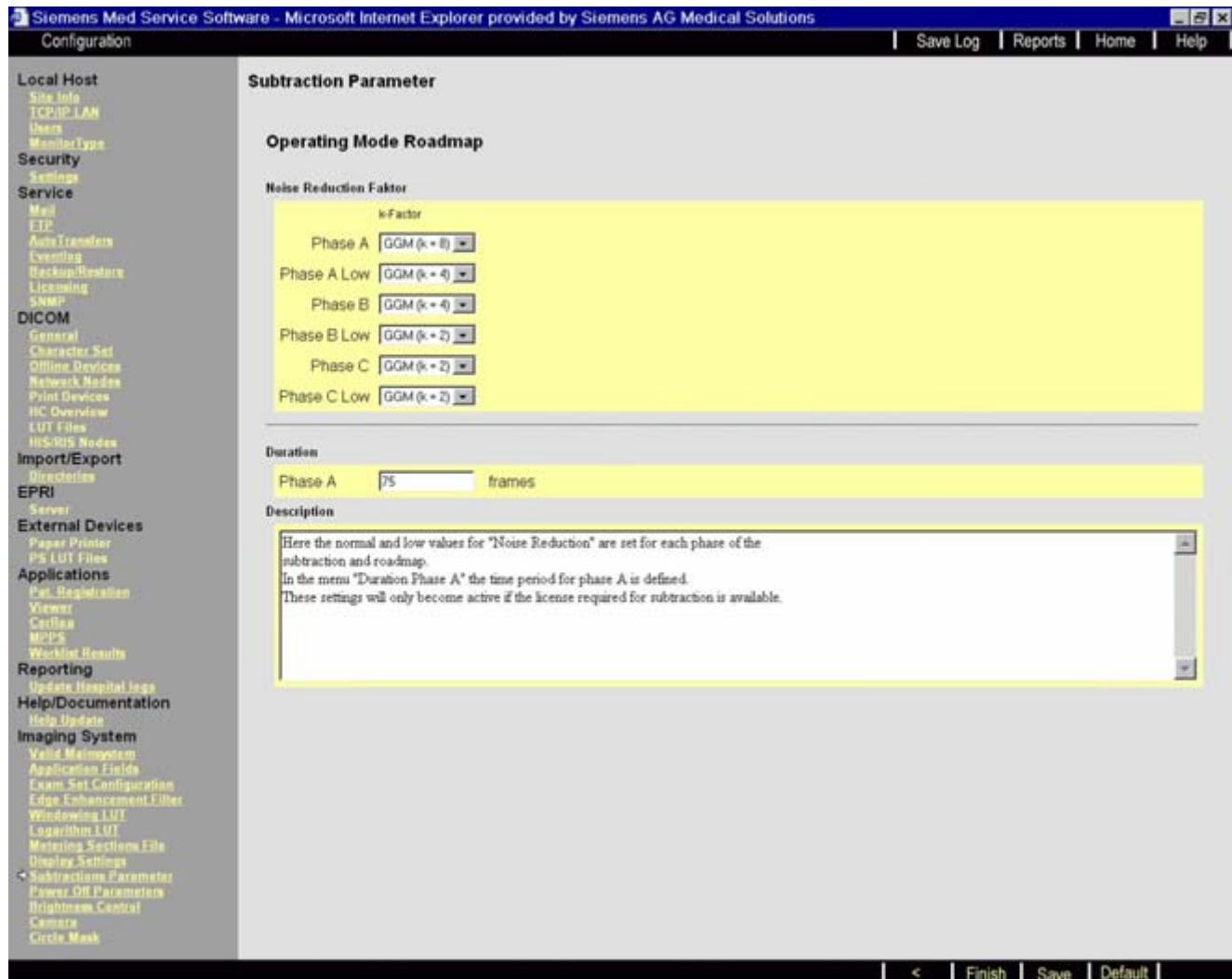


Fig. 4: Configuration imaging system subtraction parameter operating mode roadmap

### Noise reduction factor

- Verify that k factor "GGM 8" is set under Phase A.
- Verify that k factor "GGM 8" is set under Phase A Low.
- Verify that k factor "GGM 8" is set under Phase B.
- Verify that k factor "GGM 8" is set under Phase B Low.
- Verify that the k factor "GGM 4" is set under Phase C.
- Verify that the k factor "GGM 2" is set under Phase C Low.

### Duration

- Verify that "75" frames are set under Phase A.
- Select "Save".

## Brightness control

This is where the actual brightness value for brightness control of the imaging system is set.

- Select "Brightness control" under "Imaging system".

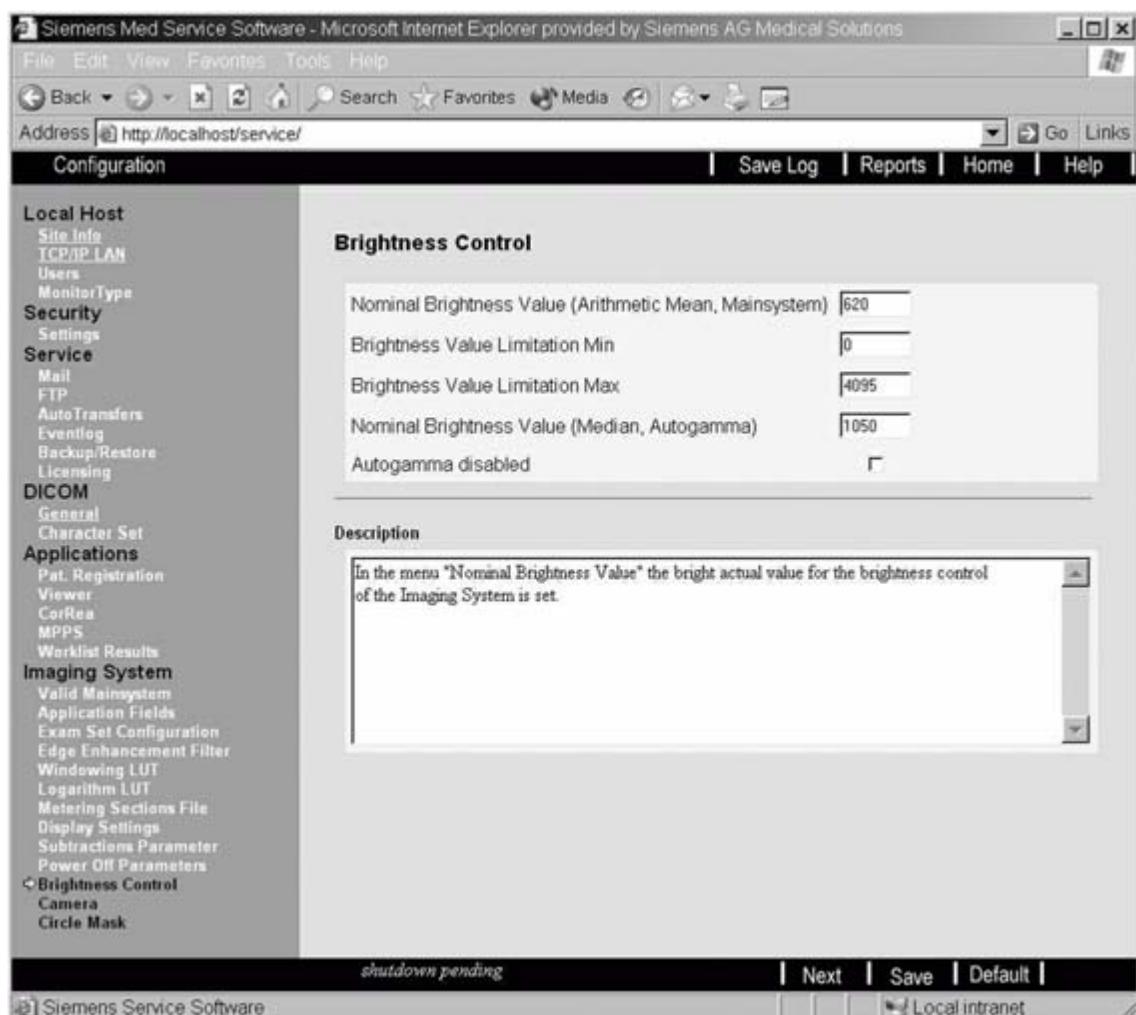
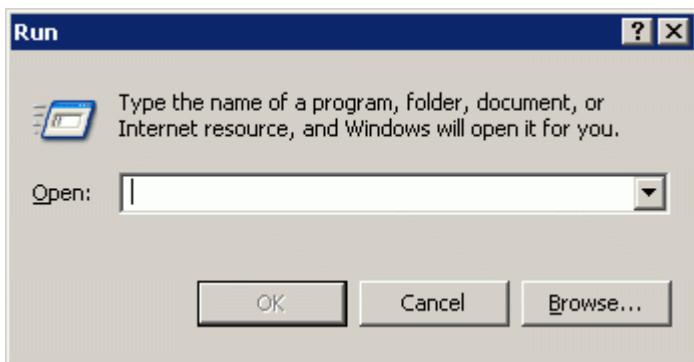


Fig. 5: Imaging System >> Brightness Control

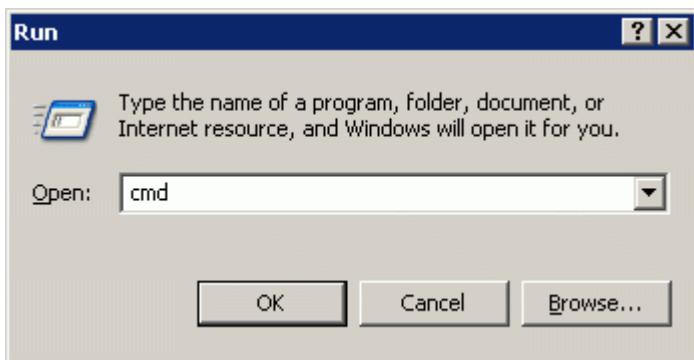
- Verify that the value "1000" is set under Nominal Brightness Value.
- Verify that the value "940" is set under Nominal Brightness Value Limitation Min.
- Verify that the value "1060" is set under Nominal Brightness Value Limitation Max.
- Enter the value "1550" under Nominal Brightness Value (Median, Autogamma).
  - The old value is "1750".
- Click "Save".

## Installing bugfix update VA00A

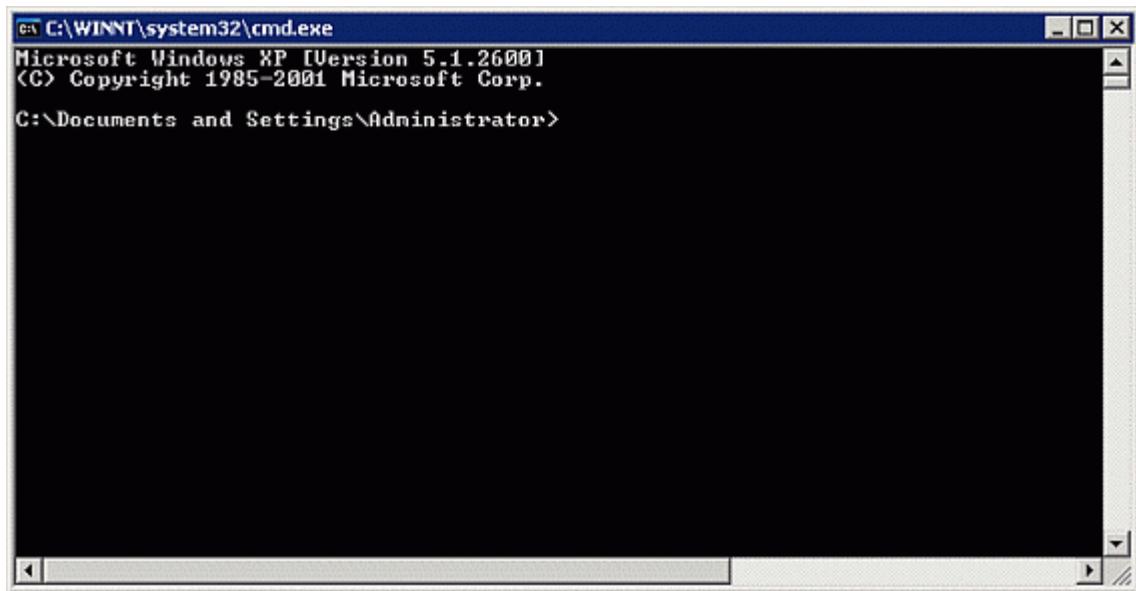
- Log on as administrator.
  - This is described in the included "Troubleshooting Guide", for example.
- Insert the "Bugfix Update VA00A" CD.
- Click "Start" in the Windows task bar.
- Click "Run".



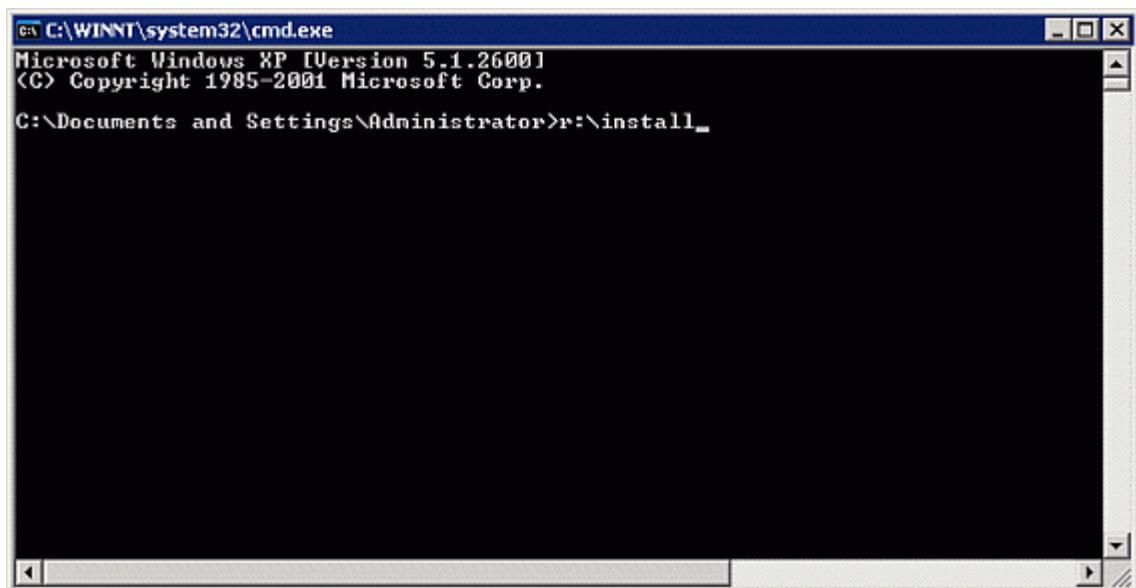
- Enter "cmd".



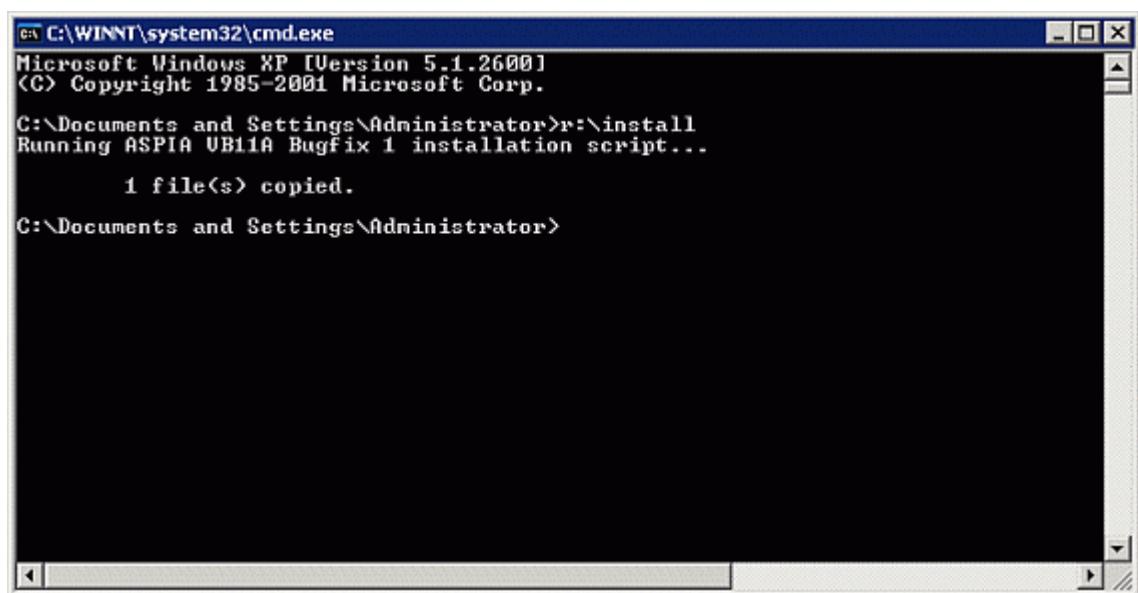
- Click "OK".
  - ⇒ The following path is displayed: "C:\Documents and settings \ Administrator>"



- Enter "r:\install".



- Press "Enter".
  - ⇒ The bugfix file is installed.



- Remove the CD from the CD drive.
  - ⇒ The Setup Wizard is automatically displayed.

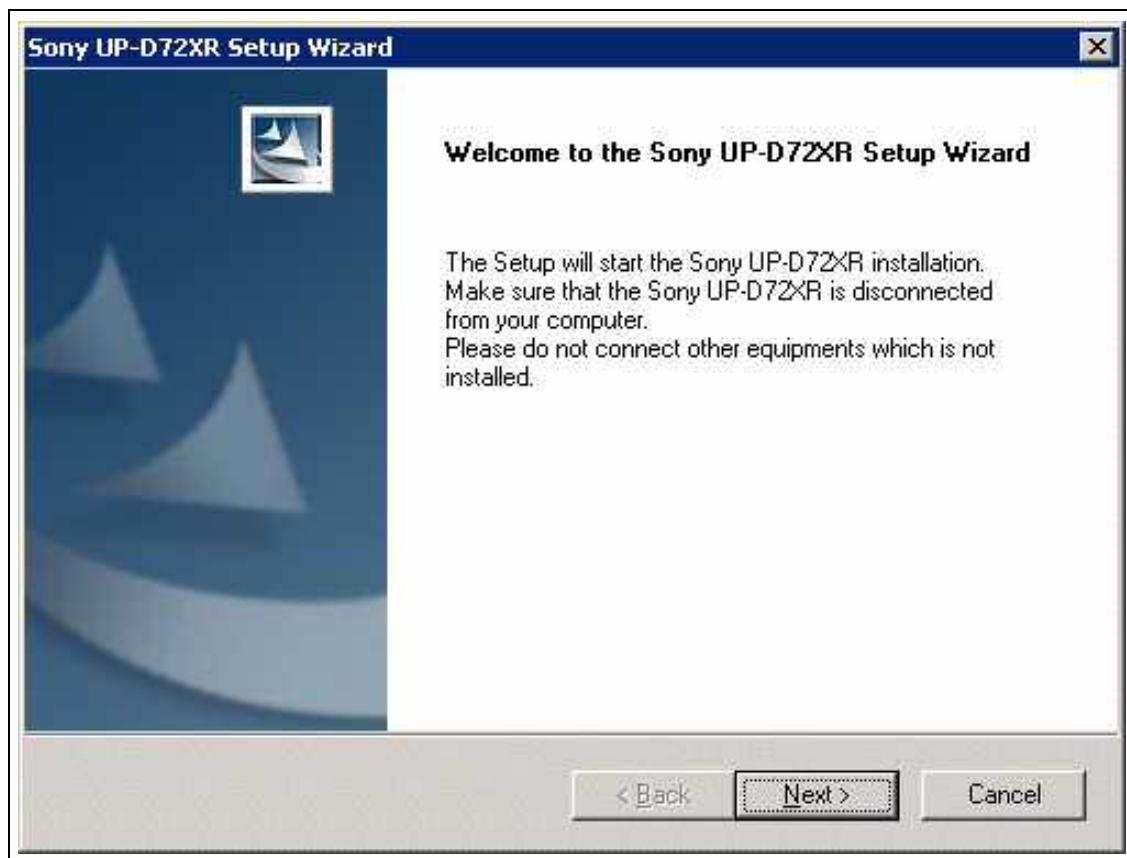


Fig. 6: Sony 3

- Click "Cancel" since no printer is to be installed.

- Click "Yes".
- Log off as administrator.
  - ⇒ The system will perform a restart.

## Importing the characteristic curves

- Open the service software.
- Select "Configuration".
- Click "Next".

## LUT files

- Select "PS LUT files" under External devices.
- Ensure that "Use LUT for postscript printers" is selected.
- Ensure that "Use floating zoom factors" is not selected.
- Insert the "system CD" and close the tray.
- Select "R:" under Drive.
- Select "Printer LUT" under "Source path".
  - The greater the number of LUT files, the lighter the printed image is.
- Select "PrinterLUT\_Gamma\_1\_2" under "Source path".
  - Always only one printer LUT can be selected.
- Click "Import".
  - ⇒ The following is displayed: "File successfully copied".
- Click "OK".
- As described above, select and import all printer LUTs up to PrinterLUT\_Gamma\_1\_9
- Verify that the "PrinterLUT\_Gamma\_2" characteristic curve is displayed under "Current LUT".
- If this is not displayed, select the "PrinterLUT\_Gamma\_2" LUT under "PS LUT directory" and press the "Select" button.
- Click "Save".
- Close the service software.

## Printer test

**NOTE**

If a printer is present, perform the printer test as follows.

### Preparation

- Check whether the system CD is available. If it is not available or the printer LUT characteristic curves are not on the CD, the characteristic curves can be downloaded from the intranet and burned to CD.

### Printing a test image

- Open the service software.
- Call up the "SMPTE" test image under Service patient.
- Create a film request.
- Ensure that film is used for printing if possible.
- Select "OK".

⇒ A test image is printed.

### Print quality

- Compare the "SMPTE" test image to the "SMPTE" test image displayed on the monitor. The minimum contrast in the 5% field and in the 95% field must be visible.

#### **Result 1: Test image is identical.**

The printed "SMPTE" test image is identical to the "SMPTE" test image displayed on the monitor.

- No further action is necessary.

#### **Result 2: Test image is lighter.**

The printed "SMPTE" test image is lighter than the "SMPTE" test image displayed on the monitor.

- Select "Configuration" in the service software.
- Click "Next".
- Select "PS LUT files" under External devices.
- Ensure that "Use LUT for postscript printers" is selected.
- Ensure that "Use floating zoom factors" is not selected.
- Verify that the "PrinterLUT\_Gamma\_2" characteristic curve is displayed under "Current LUT".
- If this is not displayed, select the "PrinterLUT\_Gamma\_2" LUT under "PS LUT directory" and press the "Select" button.

- Generate another "SMPTE" test image and compare it.

**Result 3: Test image is darker.**

The printed "SMPTE" test image is darker than the "SMPTE" test image displayed on the monitor.

- Select "Configuration" in the service software.
- Click "Next".
- Select "PS LUT files" under External devices.
- Select the "PrinterLUT\_Gamma\_1\_6" characteristic curve under "PS LUT directory".
- Click "Select".
  - ⇒ The selected characteristic curve is displayed under Current LUT.
- Click "Save".
- Remove the "system CD" and close the tray.
- Generate another "SMPTE" test image and begin again at the "Print quality" section.

**NOTE**

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If the test image is again too dark or too light, activate other printer LUTs, i.e., instead of PrinterLUT\_Gamma\_1\_6, use, for example, PrinterLUT\_Gamma\_1\_4 for a test image that is too light or PrinterLUT\_Gamma\_1\_8 for a test image that is too dark.

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**Final test****Radiation summary report**

- Make an exposure for test purposes and then print the radiation summary report.

## Final check

n.a.

## Customer training

n.a.

## Final work steps

1. Update the system documentation.

Update the revision level of the operating instructions and of the technical documentation.

Fill out, and if needed, make a copy of the attached "Completion Form" and file it in the corresponding system binder or in the User Handbook.

2. Updates performed prior to publication of this document must also be reported.

3. The update is reported as follows:

- The update report cards (type 606) that were previously distributed in conjunction with publication of updates are no longer used.
- The update must be reported by authorized personnel on the intranet/extranet.

## Changes to previous version

n.a.

(Not necessary for remote updates without a service engineer!)

Update no. **SP005/05/I** was performed.

Material number: .....

Serial number: .....

Customer: ..... City: .....

Customer num-  
ber: .....

Name (CSE): ..... Telephone: .....

Country: ..... City: .....

Date: ..... Signature: .....

Note: .....

**NOTE**

**After completing the update, make a copy of this page, fill it out and file it in the appropriate system binder/user handbook.**